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WO 01/02112 A1

(54) Title: DISINTEGRATIVE CORE FOR HIGH PRESSURE CASTING, METHOD FOR MANUFACTURING THE SAME, AND METHOD FOR EXTRACTING THE SAME

(57) Abstract: Disclosed is a method for manufacturing a disintegrative core for use in high pressure casting. The disintegrative core can be applied where a light metal such as an aluminum alloy or magnesium alloy is subjected to high pressure casting, such as die casting or squeeze casting and is manufactured from a water-soluble salt which is high in latent heat and ranges, in melting point, from 280 to 520 °C and, in heat transfer coefficient ( $\kappa$ ), from  $9.8 \times 10^{-2}$  to  $1.2 \times 10 W/m \cdot ^\circ C$ . The water-soluble salt, alone or in combination with a fine hard powder, is melted and solidified in a core mold. Alternatively, the melt is processed into a fine powder which is then molded in a core mold. The method can be applied for the manufacture of complex shapes of cores. Also, disclosed is a method for extracting such a core from a high pressure molded product.